

BEST AVAILABLE COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049790 A2

(51) International Patent Classification⁷:

C12N

(21) International Application Number:

PCT/US2004/019046

(22) International Filing Date: 14 June 2004 (14.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/478,185 13 June 2003 (13.06.2003) US

(71) Applicant (for all designated States except US): CENTER FOR BLOOD RESEARCH, INC. [US/US]; 800 Huntington Avenue, Boston, MA 02115 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BLACKWELL, T., Keith [US/US]; 514 Chestnut St., Waban, MA 02468 (US). AN, Jae Hyung [—/US]; 47 Ridgecrest Terrace, Apt #8, West Roxbury, MA 02132 (US).

(74) Agent: FREEMAN, John, W.; Fish & Richardson, P.C., 225 Franklin Street, Boston, MA 02110-2804 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

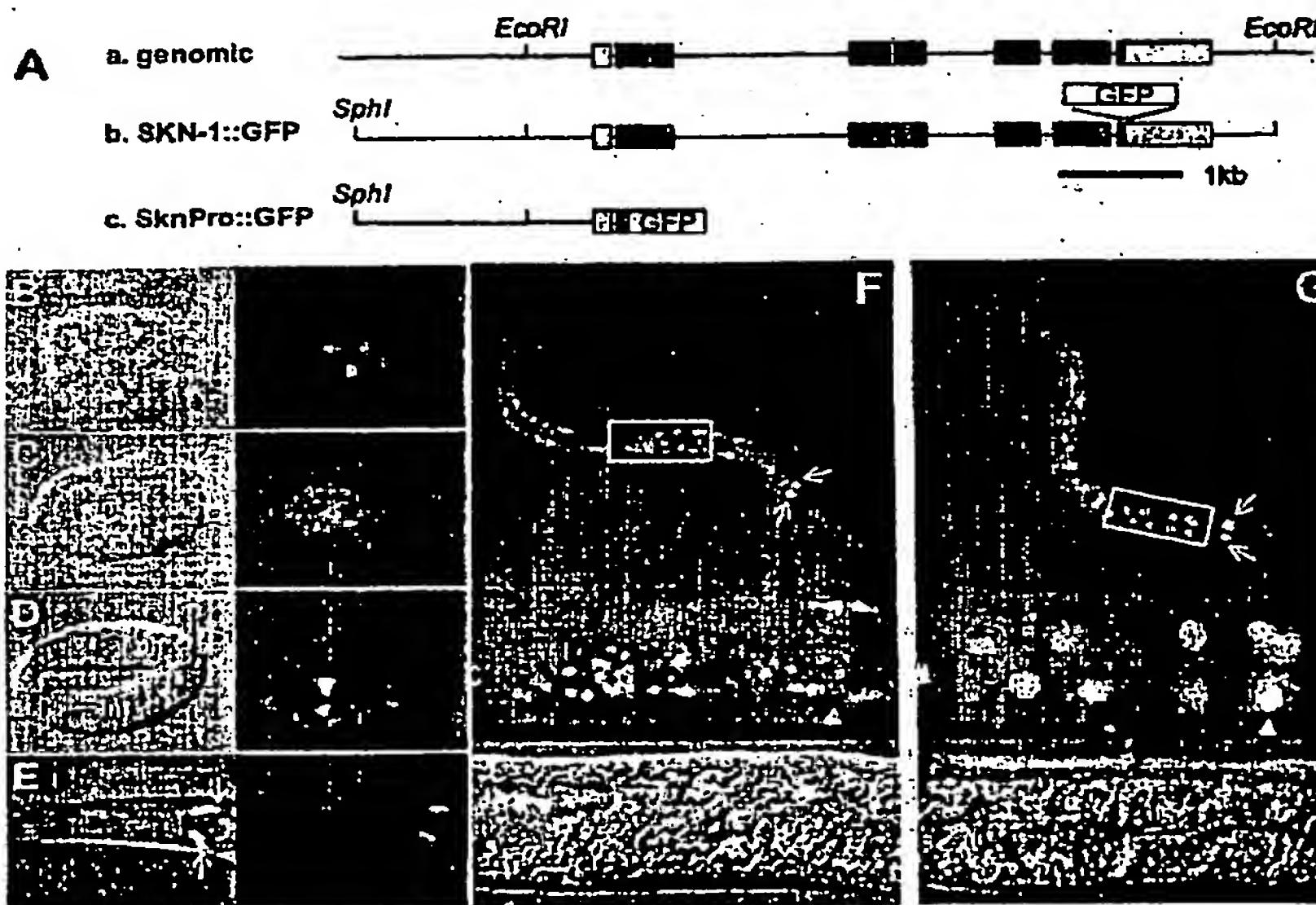
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SKN-1 AND GSK-3 GENES AND PROTEINS



(57) Abstract: The present invention relates, in part, to the *C. elegans* SKN-1 gene and protein (a transcription factor), and target genes thereof. The invention includes various therapeutic methods and screening methods for identifying antioxidants.

WO 2005/049790 A2